

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : David H. Persing et al.
Application No. : 09/991,376
Filed : November 20, 2001
For : PROPHYLACTIC AND THERAPEUTIC TREATMENT OF
INFECTIOUS AND OTHER DISEASES WITH MONO- AND
DISACCHARIDE-BASED COMPOUNDS

Docket No. : 210121.530C1

Commissioner for Patents
Washington, DC 20231

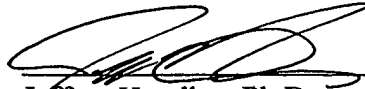
INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references are enclosed). As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,
Seed Intellectual Property Law Group PLLC

A handwritten signature in black ink, appearing to read 'Jeffrey Hundley', is written over a horizontal line.

Jeffrey Hundley, Ph.D.
Registration No. 42,676

JEH:mls

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FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
210121.530C1APPLICATION NO.
09/991,376

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

David H. Persing et al.

FILING DATE

November 20, 2001

GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,303,347	10/16/01	Johnson et al.	435	101	
	AB	6,113,918	09/05/00	Johnson et al.	424	278.1	
	AC	4,987,237	01/22/91	Myers et al.	549	222	
	AD	4,912,094	03/27/90	Myers et al.	514	54	
	AE	4,877,611	10/31/89	Cantrell	424	88	
	AF	4,866,034	09/12/89	Ribi	514	2	
	AG	4,436,727	03/13/84	Ribi	424	177	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AH	WO 98/50399	11/12/98	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AI	Johnson et al., "3-O-desacyl monophosphoryl lipid A derivatives: synthesis and immunostimulant activities," <i>J. Med. Chem.</i> 42:4640-4649, 1999.
	AJ	Kirschning et al., "Human toll-like receptor 2 confers responsiveness to bacterial lipopolysaccharide," <i>J. Exp. Med.</i> 188(11):2091-2097, December 7, 1998.
	AK	Poltorak et al., "Defective LPS signaling in C3H/HeJ and C57BL/10ScCr mice: mutations in <i>Tlr4</i> gene," <i>Science</i> 282:2085-2088, December 11, 1998.
	AL	Qureshi et al., "Endotoxin-tolerant mice have mutations in toll-like receptor 4 (<i>Tlr4</i>)," <i>J. Exp. Med.</i> 189(4):615-625, February 15, 1999.
	AM	Ulrich and Meyers, in <i>Vaccine Design: The Subunit and Adjuvant Approach</i> : Powell and Newman Eds.; Plenum: New York, 495-524, 1995.
	AN	Yang et al., "Toll-like receptor-2 mediates lipopolysaccharide-induced cellular signaling," <i>Nature</i> 395:284-288, September 17, 1998.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

DAVID H. PERSING, ET AL.

Application No.: not known

Filed: not known

For: PROPHYLACTIC AND
THERAPEUTIC TREATMENT OF
INFECTIOUS AND OTHER DISEASES
WITH MONO- AND DISACCHARIDE
COMPOUNDS

Examiner: not known

Art Unit: not known

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are not enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

DAVID H. PERSING, ET AL.
Application No.: 10/128,156
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PATENT

Respectfully submitted,

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JA:ja
60114191 v1

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/128,156	
			Filing Date	April 22, 2002	
			First Named Inventor	Persing, David H.	
			Art Unit	1623	
Examiner Name	KATHLEEN FONDA				
Sheet	1	of		Attorney Docket Number	014058-017640US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	AA	US-6,844,894	07-04-1989	Ribi	
	AB	US-5,762,943	06-09-1998	Dolovich et al.	
	AC	US-6,113,918	09-05-2000	Johnson et al.	
	AD	US-6,303,347	10-16-2001	Johnson et al.	
	AE	US-6,355,257	03-12-2002	Johnson et al.	
	AF	US-2002/0009456	01-04-2002	Crane	
	AG	US-2002/0048588	04-25-2002	Johnson et al.	
	AH	US-			
	AI	US-			
	AJ	US-			
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	AP	US-			
	AQ	US-			
	AR	US-			
	AS	US-			
	AT	US-			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	AU							<input type="checkbox"/>
	AV							<input type="checkbox"/>
	AW							<input type="checkbox"/>
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	AZ							<input type="checkbox"/>
	BA							<input type="checkbox"/>
	BB							<input type="checkbox"/>

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

60114191 v1

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/128,156	
			Filing Date	April 22, 2002	
			First Named Inventor	Persing, David H.	
			Art Unit	1623	
			Examiner Name	KATHLEEN FONDA	
Sheet	2	of		Attorney Docket Number	014058-017640US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BC		
	BD		
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Examiner Signature		Date Considered	
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.